



CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005



Job No.: CTCE/BBMP/W.No.06/PH/CSR-07/095b/CEMENT/2016-17

Date: 19.07.2016

TEST REPORT ON CEMENT

* CUSTOMER	:	Asst. Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
*AGENCY	:	Mr. P. Hemanth (Soorya Creators), #109/110, 4 th Cross, 6 th Main, Vivekenanda Road, Balaji Layout, Nagashettyhalli, Sanjayanagara, Bangalore – 94.
*NAME OF THE WORK	:	Construction of Samudaya Bhavana at Hegdenagara (near Dry Waste collection center) in Ward No.06, Byatarayanapura Sub Division, BBMP, Bangalore.
*REFERENCE	:	AEE/BSD/BBMP/04/2016-17 Dated: 18.07.2016
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	18.07.2016
PERIOD OF TESTING	:	18.07.2016 to 19.07.2016



The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	28.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	155 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	485 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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Handwritten signature and initials: AE

Handwritten signature: VISHWANATH .C
Quality Manager



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T-2377

Job No.: CTCE/BBMP/W.No.06/PH/CSR-07/095b/SAND-Gradation/2016-17

: 19.07.2016

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

* Customer : Asst. Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

* Agency : Mr. P. Hemanth (Soorya Creators),
#109/110, 4th Cross, 6th Main, Vivekenanda Road, Balaji Layout,
Nagashettyhalli, Sanjaynagara, Bangalore - 94.

* Name of Work : Construction of Samudaya Bhavana at Hegdenagara (near Dry Waste collection center) in Ward No.06, Byatarayanapura Sub Division, BBMP, Bangalore.

Reference : AEE/BSD/BBMP/04/2016-17 Dated: 18.07.2016

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates

Sample Received on : 18.07.2016

Date of Testing : 19.07.2016



Total Wt. of Aggregates in gms 1000

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	95.00	90-100	90-100	90-100	95-100
2.36	78.00	60-95	75-100	85-100	95-100
1.18	56.50	30-70	55-90	75-100	90-100
600 Micron	27.50	15-34	35-59	60-79	80-100
300 Micron	14.50	5-20	8-30	12-40	15-50
150 Micron	5.50	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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Job No.: CTCE/BBMP/W.No.06/PH/CSR-07/095b/AGG/GR/2016-17

: 19.07.2016

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

* **Customer** : Asst. Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

* **Agency** : **Mr. P. Hemanth (Soorya Creators),**
#109/110, 4th Cross, 6th Main, Vivekenanda Road, Balaji Layout,
Nagashettyhalli, Sanjayanagara, Bangalore – 94.

* **Name of Work** : Construction of Samudaya Bhavana at Hegdenagara (near Dry Waste collection center) in Ward No.06, Byatarayanapura Sub Division, BBMP, Bangalore.

Reference : AEE/BSD/BBMP/04/2016-17 Dated: 18.07.2016

Technical Reference : IS : 2386 Part 1 -1963 RA-2007

Sample ID : Coarse Aggregates (40mm)

Sample Received on : 18.07.2016

Date of Testing : 19.07.2016



Total Wt. of Aggregates in gms= 7000

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.64	95-100	85-100
20	33.36	30-70	0-20
10	15.50	10-35	0-5
4.75	1.93	0-5	-

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Remarks : This sample is under Graded specific limits.

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: 19.07.2016

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

* **Customer** : Asst. Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

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#109/110, 4th Cross, 6th Main, Vivekenanda Road, Balaji Layout,
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* **Reference** : AEE/BSD/BBMP/04/2016-17 Dated: 18.07.2016

Technical Reference : IS : 2386 Part 1 -1963 RA-2007

Sample ID : Coarse Aggregates (20mm)

Sample Received on : 18.07.2016

Date of Testing : 19.07.2016



Total Wt. of Aggregates in gms= 5000

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS :383-1970 (RA- 2007)	
		Graded	Single Sized
40	100	100	100
20	97.50	95-100	85-100
10	33.50	25-55	0-20
4.75	5.40	0-10	0-5

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Remarks : This sample is under Graded specific limits

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Job No.: CTCE/BBMP/W.No.06/PH/STEEL/2016-17

21.07.2016

TEST REPORT ON REINFORCEMENT STEEL

Customer : **Asst. Executive Engineer**, Byatarayanapura Sub Division, BBMP, Bangalore.

Agency : **Mr. P. Hemanth (Soorya Creators)**, #109/110, 4th Cross, 6th Main, Vivekenanda Road, Balaji Layout, Nagashettyhalli, Sanjayanagara, Bangalore – 94..

Name of the Work : Construction of Samudaya Bhavana at Hegdenagara (near Dry Waste collection center) in Ward No.06, Byatarayanapura Sub Division, BBMP, Bangalore.

Reference : AEE/BSO/BBMP/04/2016-17 Dated: 18.07.2016

Date of Test : 21.07.2016

Technical Reference : IS: 1786-2008



Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm ²	Tensile strength (Ultimate stress) N/mm ²	Elongation percent gauge length		
1	8	0.40	510	552	13.05	O.K	O.K

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			0.20% proof stress/Yield stress N/mm ²	Tensile strength (Ultimate stress) N/mm ²	Elongation percent gauge length		
1	10	0.62	513	556	13.20	O.K	O.K

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			0.20% proof stress/Yield stress N/mm ²	Tensile strength (Ultimate stress) N/mm ²	Elongation percent gauge length		
1	12	0.89	515	558	13.35	O.K	O.K

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			0.20% proof stress/Yield stress N/mm ²	Tensile strength (Ultimate stress) N/mm ²	Elongation percent gauge length		
1	16	1.58	520	563	13.50	O.K	O.K

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			0.20% proof stress/Yield stress N/mm ²	Tensile strength (Ultimate stress) N/mm ²	Elongation percent gauge length		
1	20	2.47	525	569	13.65	O.K	O.K

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			0.20% proof stress/Yield stress N/mm ²	Tensile strength (Ultimate stress) N/mm ²	Elongation percent gauge length		
1	25	3.85	528	572	14.80	O.K	O.K

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			0.20% proof stress/Yield stress N/mm ²	Tensile strength (Ultimate stress) N/mm ²	Elongation percent gauge length		
1	32	6.32	534	578	13.95	O.K	O.K

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Job No.: CTCE/BBMP/W.No.06/PH/CSR-07/095b/Bricks/2016-17

: 26.07.2016

TEST REPORT ON BRICKS

* **Customer** : Asst. Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

* **Agency** : Mr. P. Hemanth (Soorya Creators),
#109/110, 4th Cross, 6th Main, Vivekenanda Road, Balaji Layout, Nagashettyhalli,
Sanjayanagara, Bangalore – 94.

* **Name of the work** : Construction of Samudaya Bhavana at Hegdenagara (near Dry Waste collection
center) in Ward No.06, Byatarayanapura Sub Division, BBMP, Bangalore.

Reference : AEE/BSD/BBMP/04/2016-17 Dated: 18.07.2016

Sample ID/Type of test : Bricks / Compressive Strength of Bricks

Technical Reference : IS: 3495(Part-1)- 1992 (RA-2007)

Sample Received on : 18.07.2016

Date of Testing : 26.07.2016



Sl.No.	Size of Bricks are in mm	Weight of Bricks in gms	Failure load in KN	Compressive Strength (N/mm ²)	Average Compressive Strength (N/mm ²)	Class Designation (As per IS: 1077:1992 Table 1)
1	220x100x75	3432.00	138.5	6.30	5.75	5.0
2	220x100x75	3418.00	127.6	5.80		
3	220x100x75	3537.00	123.2	5.60		
4	220x100x75	3458.00	114.5	5.20		
5	220x100x75	3439.00	128.6	5.85		

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Job No.: CTCE/BBMP/W.No.06/PH/CSR-07/095b/Bricks/2016-17

: 26.07.2016

TEST REPORT ON BRICKS

- * **Customer** : Asst. Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
- * **Agency** : Mr. P. Hemanth (Soorya Creators),
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- Reference** : AEE/BSD/BBMP/04/2016-17 Dated: 18.07.2016
- Sample ID/Type of Test** : Bricks / Water Absorption of Bricks
- Technical Reference** : IS: 3495(Part-2)- 1992 (RA-2007)
- Sample Received on** : 18.07.2016
- Date of Testing** : 26.07.2016



Sl.No.	Size of Bricks in mm	Dry weight in gms	Wet weight in gms	Water Absorption in %	Average Water Absorption in %	Allowable Water absorption as per IS: 1077:1992 Clause 7.2)
1	220x100x75	2949	3285	11.39	11.50	Not exceeding 20%
2	220x100x75	2958	3296	11.43		
3	220x100x75	2947	3289	11.61		
4	220x100x75	2935	3287	11.99		
5	220x100x75	2967	3296	11.09		

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VISHWANATH .C
Quality Manager



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Building & Highway Material Testing Laboratory

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T-2377

Job No.: CTCE/BBMP/W.No.06/PH/CSR-07/095b/CUBE/2016-17

20.08.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

- * **Customer** : Asst. Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
- * **Agency** : Mr. P. Hemanth (Soorya Creators),
#109/110, 4th Cross, 6th Main, Vivekenanda Road, Balaji Layout,
Nagashettyhalli, Sanjayanagara, Bangalore – 94.
- * **Name of the work** : Construction of Samudaya Bhavana at Hegdenagara (near Dry Waste collection center) in Ward No.06, Byatarayanapura Sub Division, BBMP, Bangalore.
- * **Reference** : AEE/BSD/BBMP/04/2016-17 Dated: 18.07.2016
- * **Sample ID** : Cement Concrete
- Size of cubes** : 150mmx150mmx150mm
- Cross Sectional Area** : 22500 mm²
- Technical Reference** : IS: 516-1959 (Reaffirmed 2008)
- * **Grade of Concrete** : M₂₀



Compressive Strength as on : 28th day

Sample Received on : 20.08.2016

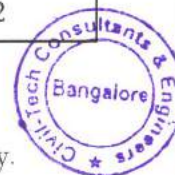
Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	23.07.2016	20.08.2016	8.112	489.3	21.75
2	23.07.2016	20.08.2016	8.259	510.2	22.68
3	23.07.2016	20.08.2016	8.326	520.1	23.12

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23.08.2016

Job No.: CTCE/BBMP/W.No.06/PH/CSR-07/095b/CUBE/2016-17

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

- * **Customer** : Asst. Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
- * **Agency** : Mr. P. Hemanth (Soorya Creators),
#109/110, 4th Cross, 6th Main, Vivekenanda Road, Balaji Layout,
Nagashettyhalli, Sanjayanagara, Bangalore – 94.
- * **Name of the work** : Construction of Samudaya Bhavana at Hegdenagara (near Dry Waste collection center) in Ward No.06, Byatarayanapura Sub Division, BBMP, Bangalore.
- * **Reference** : AEE/BSDBBMP/04/2016-17 Dated: 18.07.2016
- * **Sample ID** : Cement Concrete
- Size of cubes** : 150mmx150mmx150mm
- Cross Sectional Area** : 22500 mm²
- Technical Reference** : IS: 516-1959 (Reaffirmed 2008)
- * **Grade of Concrete** : M₂₀



Compressive Strength as on : 28th day

Sample Received on : 23.08.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	26.07.2016	23.08.2016	8.105	485.5	21.58
2	26.07.2016	23.08.2016	8.250	493.6	21.94
3	26.07.2016	23.08.2016	8.390	506.3	22.50

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Job No.: CTCE/BBMP/W.No.06/PH/CSR-07/095b/CUBE/2016-17

25.08.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

- * **Customer** : Asst. Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
- * **Agency** : Mr. P. Hemanth (Soorya Creators),
#109/110, 4th Cross, 6th Main, Vivekenanda Road, Balaji Layout,
Nagashettyhalli, Sanjaynagara, Bangalore – 94.
- * **Name of the work** : Construction of Samudaya Bhavana at Hegdenagara (near Dry Waste collection center) in Ward No.06, Byatarayanapura Sub Division, BBMP, Bangalore.
- * **Reference** : AEE/BSD/BBMP/04/2016-17 Dated: 18.07.2016
- * **Sample ID** : Cement Concrete
- Size of cubes** : 150mmx150mmx150mm
- Cross Sectional Area** : 22500 mm²
- Technical Reference** : IS: 516-1959 (Reaffirmed 2008)
- * **Grade of Concrete** : M₂₀



Compressive Strength as on : 28th day

Sample Received on : 25.08.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	28.07.2016	25.08.2016	8.139	474.9	21.11
2	28.07.2016	25.08.2016	8.285	485.6	21.58
3	28.07.2016	25.08.2016	8.390	502.3	22.32

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Job No.: CTCE/BBMP/W.No.06/PH/CSR-07/095b/CUBE/2016-17

26.08.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

- * **Customer** : Asst. Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
- * **Agency** : Mr. P. Hemanth (Soorya Creators),
#109/110, 4th Cross, 6th Main, Vivekenanda Road, Balaji Layout,
Nagashettyhalli, Sanjayanagara, Bangalore – 94.
- * **Name of the work** : Construction of Samudaya Bhavana at Hegdenagara (near Dry Waste collection center) in Ward No.06, Byatarayanapura Sub Division, BBMP, Bangalore.
- * **Reference** : AEE/BSD/BBMP/04/2016-17 Dated: 18.07.2016
- * **Sample ID** : Cement Concrete
- Size of cubes** : 150mmx150mmx150mm
- Cross Sectional Area** : 22500 mm²
- Technical Reference** : IS: 516-1959 (Reaffirmed 2008)
- * **Grade of Concrete** : M₂₀



Compressive Strength as on : 28th day

Sample Received on : 26.08.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	29.07.2016	26.08.2016	8.120	482.3	21.44
2	29.07.2016	26.08.2016	8.290	493.6	21.94
3	29.07.2016	26.08.2016	8.315	508.5	22.60

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Job No.: CTCE/BBMP/W.No.06/PH/CSR-07/095b/CUBE/2016-17

27.08.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

- * **Customer** : Asst. Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
- * **Agency** : Mr. P. Hemanth (Soorya Creators),
#109/110, 4th Cross, 6th Main, Vivekenanda Road, Balaji Layout,
Nagashettyhalli, Sanjayanagara, Bangalore – 94.
- * **Name of the work** : Construction of Samudaya Bhavana at Hegdenagara (near Dry Waste collection center) in Ward No.06, Byatarayanapura Sub Division, BBMP, Bangalore.
- * **Reference** : AEE/BSD/BBMP/04/2016-17 Dated: 18.07.2016
- * **Sample ID** : Cement Concrete
- Size of cubes** : 150mmx150mmx150mm
- Cross Sectional Area** : 22500 mm²
- Technical Reference** : IS: 516-1959 (Reaffirmed 2008)
- * **Grade of Concrete** : M₂₀



Compressive Strength as on : 28th day

Sample Received on : 27.08.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	30.07.2016	27.08.2016	8.105	502.2	22.32
2	30.07.2016	27.08.2016	8.283	512.3	22.77
3	30.07.2016	27.08.2016	8.356	528.6	23.49

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Job No.: CTCE/BBMP/W.No.06/PH/CSR-07/095b/CUBE/2016-17

30.08.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

- * Customer : Asst. Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
- * Agency : Mr. P. Hemanth (Soorya Creators),
#109/110, 4th Cross, 6th Main, Vivekenanda Road, Balaji Layout,
Nagashettyhalli, Sanjayanagara, Bangalore – 94.
- * Name of the work : Construction of Samudaya Bhavana at Hegdenagara (near Dry Waste collection center) in Ward No.06, Byatarayanapura Sub Division, BBMP, Bangalore.
- * Reference : AEE/BSD/BBMP/04/2016-17 Dated: 18.07.2016
- * Sample ID : Cement Concrete
- Size of cubes : 150mmx150mmx150mm
- Cross Sectional Area : 22500 mm²
- Technical Reference : IS: 516-1959 (Reaffirmed 2008)
- * Grade of Concrete : M₂₀



Compressive Strength as on : 28th day

Sample Received on : 30.08.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	02.08.2016	30.08.2016	8.253	482.3	21.44
2	02.08.2016	30.08.2016	8.326	499.9	22.22
3	02.08.2016	30.08.2016	8.415	510.2	22.68

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Job No.: CTCE/BBMP/W.No.06/PH/CSR-07/095b/CUBE/2016-17

31.08.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

- * **Customer** : Asst. Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
- * **Agency** : Mr. P. Hemanth (Soorya Creators),
#109/110, 4th Cross, 6th Main, Vivekenanda Road, Balaji Layout,
Nagashettyhalli, Sanjayanaagara, Bangalore – 94.
- * **Name of the work** : Construction of Samudaya Bhavana at Hegdenagara (near Dry Waste collection center) in Ward No.06, Byatarayanapura Sub Division, BBMP, Bangalore.
- * **Reference** : AEE/BSD/BBMP/04/2016-17 Dated: 18.07.2016
- * **Sample ID** : Cement Concrete
- Size of cubes** : 150mmx150mmx150mm
- Cross Sectional Area** : 22500 mm²
- Technical Reference** : IS: 516-1959 (Reaffirmed 2008)
- * **Grade of Concrete** : M₂₀



Compressive Strength as on : 28th day

Sample Received on : 31.08.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	03.08.2016	31.08.2016	8.105	487.7	21.68
2	03.08.2016	31.08.2016	8.290	496.8	22.08
3	03.08.2016	31.08.2016	8.325	513.6	22.83

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